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DATE-ISSUED: January 11, 2000

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ASSIGNEE-INFORMATION:

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ART-UNIT: 277

PRIMARY-EXAMINER: Kulik; Paul V.

ASSISTANT-EXAMINER: Shah; Sanjiv

ATTY-AGENT-FIRM: Wagner, Murabito & Hao LLP

ABSTRACT:

A transformation description language (TDL) for specifying how data is to be manipulated in a data warehousing application. The TDL is comprised of a source for storing raw data, one or more transformation objects for processing the raw data according to predefined instructions, and a target for storing the processed data. A mapping is used for directing the data flow between the I/O ports corresponding to the source, the plurality of transformation objects, and the target. The mapping specifies the connectivity between the source, transformation, and target objects as well as the order of these connections. There are a number of different transformations which can be performed to manipulate the data. Some such transformations include: an aggregator transformation, an expression transformation, a filter transformation, a lookup transformation, a query transformation, a sequence transformation, a stored procedure transformation, and an update strategy transformation.

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Why is the snowflake schema a good data warehouse design?

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↑ ABSTRACT

Database design for data warehouses is based on the notion of the snowflake schema and its important special case, the star schema. The snowflake schema represents a dimensional model which is composed of a central fact table and a set of constituent dimension tables which can be further broken up into subdimension tables. We formalise the concept of a snowflake schema in terms of an acyclic database schema whose join tree satisfies certain structural properties. We then define a normal form for snowflake schemas which captures its intuitive meaning with respect to a set of functional and inclusion dependencies. We show that snowflake schemas in this normal form are independent as well as separable when the relation schemas are pairwise incomparable. This implies that relations in the data warehouse can be updated independently of each other as long as referential integrity is maintained. In addition, we show that a data warehouse in snowflake normal form can be queried by joining the relation over the fact table with the relations over its dimension and subdimension tables. We also examine an information-theoretic interpretation of the snowflake schema and show that the redundancy of the primary key of the fact table is zero.

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Additional Classification:

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Subjects: Normal forms

+ H.2.7 <u>Database Administration</u>

Subjects: Data warehouse and repository

General Terms:

Design, Theory

Keywords:

acyclic database schema, data warehouse design, independent and separable database schema, star and snowflake schema

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October 2001 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 10 Issue 4

Publisher: ACM Press

Full text available: pdf(203.43 KB)

Additional Information: full citation, abstract, references, index terms, review

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality management

<u>Database: A methodological framework for conceptual data warehouse design</u>



Leopoldo Zepeda, Matilde Celma, Ramón Zatarain

March 2005 Proceedings of the 43rd annual southeast regional conference - Volume 1 ACM-SE 43

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A Data Warehouse (DW) has been an approach adopted for giving support to the process of taking decisions in an organization. This paper is concerned with the data warehouse conceptual schema design starting from the conceptual operational schemas and user requirements. We propose and illustrate an algorithm for automatic conceptual schema development. Our algorithm uses an enterprise schema represented with UML as a starting point for source driven data warehouse schema design and produces a set ...

Keywords: UML, multidimensional design

A comparison of data warehousing methodologies

Arun Sen, Atish P. Sinha

March 2005 Communications of the ACM, Volume 48 Issue 3

Publisher: ACM Press

Using a common set of attributes to determine which methodology to use in a particular data warehousing project.

Balancing redundancy and query costs in distributed data warehouses

Klaus-Dieter Schewe, Jane Zhao

January 2005 Proceedings of the 2nd Asia-Pacific conference on Conceptual modelling - Volume 43 APCCM '05

Publisher: Australian Computer Society, Inc.

Full text available: pdf(240.33 KB) Additional Information: full citation, abstract, references, index terms

Abstract State Machines (ASMs) encourage high-level system specifications without forcing the development into the "formal methods straight-jacket". This makes them an ideal formal method for applications in areas, where otherwise only semi-formal methods are used. One such area is the development of data warehouse and on-line analytical processing (OLAP) applications to which this article contributes. Based on an ASM ground model for data warehouses we show which problems have to be solved in t ...

Keywords: abstract state machine, cost model, data warehouse, distribution, refinement

⁵ Articles: Reconsidering Multi-Dimensional schemas

Tim Martyn

March 2004 ACM SIGMOD Record, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(163.67 KB) Additional Information: full citation, abstract, references, citings

This paper challenges the currently popular "Data Warehouse is a Special Animal" philosophy and advocates that practitioners adopt a more conservative "Data Warehouse=Database" philosophy. The primary focus is the relevancy of Multi-Dimensional logical schemas. After enumerating the advantages of such schemas, a number of caveats to the presumed advantages are identified. The paper concludes with guidelines and commentary on implications for data warehouse design methodologies.

6 Handling multiple points of view in a multimedia data warehouse

Anne-Muriel Arigon, Anne Tchounikine, Maryvonne Miquel

August 2006 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(586.25 KB) Additional Information: full citation, abstract, references, index terms

Data warehouses are dedicated to collecting heterogeneous and distributed data in order to perform decision analysis. Based on multidimensional model, OLAP commercial environments such as they are currently designed in traditional applications are used to provide means for the analysis of facts that are depicted by numeric data (e.g., sales depicted by amount or quantity sold). However, in numerous fields, like in medical or bioinformatics, multimedia data are used as valuable information in the ...

Keywords: Data warehouse, OLAP, descriptor, functional version, multimedia

7 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal

March 1997 ACM SIGMOD Record, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60 KB) Additional Information: full citation, abstract, citings, index terms

Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database management system vendors now have offerings in these areas. Decision support places some rather different requirements on database technology compared to traditional online transaction processing applications. This paper provides an overview ...

8 Industrial-strength data warehousing

🖍 Arun Sen, Varghese S. Jacob

September 1998 Communications of the ACM, Volume 41 Issue 9

Publisher: ACM Press

Full text available: pdf(135.53 KB) Additional Information: full citation, citings, index terms, review

9 <u>Using abstract state machines for distributed data warehouse design</u> Jane Zaho, Klaus-Dieter Schewe

January 2004 Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31 APCCM '04

Publisher: Australian Computer Society, Inc.

Full text available: pdf(382.76 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data Warehouses are data-intensive systems that are used for analytical tasks. As these tasks do not depend on the latest updates by transactions, data warehouses can be set up in a way that input of data from operational databases and output to dialogue interfaces for on-line analytical processes (OLAP) can be separated. In the paper we describe how abstract state machines (ASMs) can be used to design distributed data warehouses. We formalise the ground idea of data warehouses by a ground model ...

10 Towards OLAP security design — survey and research issues

Torsten Priebe, Günther Pernul

November 2000 Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(107.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, access control, data warehouse, design, security

11 starER: a conceptual model for data warehouse design

Nectaria Tryfona, Frank Busborg, Jens G. Borch Christiansen
November 1999 Proceedings of the 2nd ACM international workshop

November 1999 Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(742.63 KB)

Additional Information: full citation, abstract, references, citings, index terms

Modeling data warehouses is a complex task focusing, very often, into internal structures and implementation issues. In this paper we argue that, in order to accurately reflect the users requirements into an error-free, understandable, and easily extendable data warehouse schema, special attention should be paid at the conceptual modeling phase. Based on a real mortgage business warehouse environment, we present a set of user modeling requirements and we discuss the involved concepts. Under ...

Keywords: ER model, conceptual modeling, data warehouse, star structure

12 CubiST: a new algorithm for improving the performance of ad-hoc OLAP queries Lixin Fu, Joachim Hammer



November 2000 Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP

Publisher: ACM Press

Full text available: pdf(296.08 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, data cube, data warehouse, index structure, query optimization, query processing

13 Congressional samples for approximate answering of group-by queries



Swarup Acharya, Phillip B. Gibbons, Viswanath Poosala

May 2000 ACM SIGMOD Record, Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(1.26 MB)

Additional Information: full citation, abstract, references, citings, index terms

In large data warehousing environments, it is often advantageous to provide fast, approximate answers to complex decision support queries using precomputed summary statistics, such as samples. Decision support queries routinely segment the data into groups and then aggregate the information in each group (group-by queries). Depending on the data, there can be a wide disparity between the number of data items in each group. As a result, approximate answers based on uniform random sample ...

14 Join synopses for approximate query answering



Swarup Acharya, Phillip B. Gibbons, Viswanath Poosala, Sridhar Ramaswamy June 1999 ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.54 MB)

Additional Information: full citation, abstract, references, citings, index

In large data warehousing environments, it is often advantageous to provide fast, approximate answers to complex aggregate queries based on statistical summaries of the full data. In this paper, we demonstrate the difficulty of providing good approximate answers for join-queries using only statistics (in particular, samples) from the base relations. We propose join synopses as an effective solution for this problem and show how precomputing just one join synopsis

15 Research papers: data cleaning and mapping: Supporting executable mappings in



model management

Sergey Melnik, Philip A. Bernstein, Alon Halevy, Erhard Rahm

June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(408.49 KB) Additional Information: full citation, abstract, references

Model management is an approach to simplify the programming of metadata-intensive applications. It offers developers powerful operators, such as Compose, Diff, and Merge, that are applied to models, such as database schemas or interface specifications, and to

mappings between models. Prior model management solutions focused on a simple class of mappings that do not have executable semantics. Yet many metadata applications require that mappings be executable, expressed in SQL, XSLT, or other data ...

16 Research sessions: continuous queries and streams: Processing complex aggregate





queries over data streams

Alin Dobra, Minos Garofalakis, Johannes Gehrke, Rajeev Rastogi

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index

Recent years have witnessed an increasing interest in designing algorithms for querying and analyzing streaming data (i.e., data that is seen only once in a fixed order) with only limited memory. Providing (perhaps approximate) answers to queries over such continuous data streams is a crucial requirement for many application environments; examples include large telecom and IP network installations where performance data from different parts of the network needs to be continuously collected and a ...

An information-theoretic approach to normal forms for relational and XML data Marcelo Arenas, Leonid Libkin



June 2003 Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM Press

Full text available: pdf(309.44 KB)

Additional Information: full citation, abstract, references, citings, index terms

Normalization as a way of producing good database designs is a well-understood topic. However, the same problem of distinguishing well-designed databases from poorly designed ones arises in other data models, in particular, XML. While in the relational world the criteria for being well-designed are usually very intuitive and clear to state, they become more obscure when one moves to more complex data models. Our goal is to provide a set of tools for testing when a condition on a database design, ...

18 <u>Database design: On redundancy vs dependency preservation in normalization: an</u>





information-theoretic study of 3NF Solmaz Kolahi, Leonid Libkin

June 2006 Proceedings of the twenty-fifth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '06

Publisher: ACM Press

Full text available: pdf(224.56 KB) Additional Information: full citation, abstract, references, index terms

A recently introduced information-theoretic approach to analyzing redundancies in database design was used to justify normal forms like BCNF that completely eliminate redundancies. The main notion is that of an information content of each datum in an instance (which is a number in [0,1]): the closer to 1, the less redundancy it carries. In practice, however, one usually settles for 3NF which, unlike BCNF, may not eliminate all redundancies but always guarantees dependency preservation. In this pa ...

19 An information-theoretic approach to normal forms for relational and XML data Marcelo Arenas, Leonid Libkin





March 2005 Journal of the ACM (JACM), Volume 52 Issue 2

Publisher: ACM Press

Full text available: pdf(365.86 KB) Additional Information: full citation, abstract, references, index terms

Normalization as a way of producing good relational database designs is a well-

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understood topic. However, the same problem of distinguishing well-designed databases from poorly designed ones arises in other data models, in particular, XML. While, in the relational world, the criteria for being well designed are usually very intuitive and clear to state, they become more obscure when one moves to more complex data models. Our goal is to provide a set of tools for testing when a condition on a data ...

Keywords: Information theory, XML, design, normal forms, normalization algorithms, relational databases

²⁰ <u>Virtual extension: Data warehousing in environmental digital libraries</u>

Richard D. Holowczak, Nabil R. Adam, Francisco J. Artigas, Irfan Bora September 2003 **Communications of the ACM**, Volume 46 Issue 9

Publisher: ACM Press

Full text available: pdf(185.95 KB) Additional Information: full citation, references, citings, index terms

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